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A NEW RACE OF POCKET GOPHER FOUND IN OREGON AND WASHINGTON.

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Knowledge of the existence in the Museum of Vertebrate Zoology of the series of topotypes, obtained in 1930 by Miss Annie M. Alexander and Miss Louise Kellogg, of the several kinds of pocket gophers named from eastern Washington and Oregon, induced one of us (Orr), when visiting that region, to direct special effort toward obtaining additional specimens, from other localities, judged as probably of importance in contributing to a better understanding of the genus *Thomomys* there. One result of this effort was the taking of certain specimens, in the Wallowa Mountains of Oregon, which, when studied together with other specimens previously taken from the same mountain mass, give basis for recognition of the here-tofore unnamed geographic race described below.

Thomomys quadratus wallowa, new subspecies.

Type.—Male, adult, skin-and-skull; no. 54701, Mus. Vert. Zool.; Catherine Creek, seven miles east Telocaset, 3500 feet altitude, Union County, Oregon; June 29, 1932; collected by Robert T. Orr; original no. 570.

Range.—Wallowa Mountains of northeastern Oregon and adjoining mountains in southeastern Washington.

Diagnosis.—Size: small (see measurements). Color (summer pelage): near (I) Snuff Brown¹ above; sides lighter (more grayish); underparts washed with Cinnamon Buff; hind feet and tail whitish. Skull: rostrum short and broad; premaxillae extending considerably behind nasals; zygomata nearly parallel but not broadly expanded; tympanic bullae small; dorsal margin of foramen magnum evenly rounded; maxillary arms of zygomata abruptly depressed.

Comparisons and relationships.—As compared with the geographically adjacent Thomomys columbianus Bailey, T. q. wallowa, cranially, is smaller with less well developed temporal ridges, in side view has the maxillary

¹Capitalized color terms after Ridgway: color standards and color nomenclature, 1912.

6-Proc. Biol. Soc. Wash., Vol. 46, 1933.

(41)

arm of the zygoma not as nearly vertical, has relatively less inflated tympanic bullae and the tip of rostrum less depressed. The two last mentioned characters show approach to T. q. quadratus, from which wallowa differs in smaller size, less well developed temporal ridges, less widely expanded zygomatic arches, more inflated tympanic bullae and in having the maxillary arms of the zygomata, in side view, not as nearly vertical.

Selected differences of T. q. wallowa, from Thomomys fuscus fuscus (specimens from Smith Mountain, Adams County, Idaho) are as follows: Auditory bullae less inflated ventrally and in mastoid portion; maxillary arms of zygomata more nearly vertical; rostrum relatively, as well as actually, shorter and broader; premaxillae extending farther behind nasals; dorsal margin of foramen magnum, without, rather than with, distinct indentation. The three last mentioned characters are ones in which wallowa agrees with T. q. quadratus. The two first mentioned features are ones in which wallowa is intermediate as between quadratus and fuscus. Other features in which wallowa resembles fuscus and departs from quadratus are: small size; narrow braincase; and narrowness across the zygomatic arches.

Four specimens, two of which are young, from Ochoco Ranger Station, 4000 feet altitude, Crook County, Oregon, deserve mention in the present connection. The locality is geographically intermediate as between the territories known to be inhabited by quadratus and wallowa. The skulls of the two adults are intermediate in general size as between wallowa and quadratus and the degree of inflation of the tympanic bullae is intermediate as between these two forms. The braincase is wider as in quadratus. Indeed the skull throughout is relatively wide as in quadratus and further agrees with that form as regards the nearly vertical position of the maxillary arms of the zygomata. The specimens are referred to quadratus. At the same time, they are regarded as in the nature of intergrades toward wallowa and on this account we think justify use of the specific name quadratus with the here newly proposed name wallowa.

T. q. wallowa itself is intermediate in cranial characters as between quadratus and fuscus. In fact, it stands very near the center of the gap which separates the two forms. By one line of reasoning these structural features of wallowa might justify uniting fuscus and quadratus as subspecies of a single species. However, a gap of some size, even though only about half as great as formerly thought, still exists between fuscus and animals of the quadratus type. If, and when, intermediates are found between fuscus and wallowa, as we have just described from Ochoco Ranger Station, between quadratus and wallowa, then we should have but little hesitancy in treating quadratus and fuscus as geographic races of one and the same species. However, we have seen no specimens from intermediate localities which bridge the gap between the long, narrow rostrum of fuscus on the one hand and the short, wide rostrum of quadratus and vallowa on the other.

Specimens examined.—Total number, 8, as follows: Anthony, Baker County, Oregon, 4; Catherine Creek, seven miles east of Telocaset, 3500 feet altitude, Union County, Oregon, 2; twenty-five miles southeast of Dayton, Blue Mountains, Columbia County, Washington, 1; Humpeg Falis, Columbia County, Washington, 1.

MEASUREMENTS, IN MILLIMETERS, OF FIVE ADULT SPECIMENS OF Thomomys quadratus wallowa.

Breadth of rostrum	6.7 7.3 6.5 6.4 6.6
to dagael relosviA seires relom requ	7.6 7.1 6.7 6.8 6.8
Least interorbital breadth	6.4 6.6 6.7 6.2 6.1
Mastoid biotasM	17.2 16.6 15.9 17.6
Aygomatic breadth	19.9
Length of nasals	12.7
Length of rostrum ²	15.4
Basilar length	31.7 30.0 30.0 31.5
tool baid to digas.	27 25 26 25 25
Length of tail	52 54 56 65 64
Total length	. 190 . 188 . 185 . 188
Locality	Columbia Co., Wash Union Co., Ore Baker Co., Ore Baker Co., Ore
xəg	9 9 9 9 9
Oatalog no.	21199 Type 3709 3711 3712

Length of rostrum as here given was taken from the middle of the anterior border of the nasals to the maxilla at the lateral end of the base of the lacrymal process.